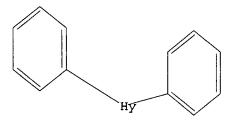
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L16
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L19
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T/22
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L23
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RZA
     33T9 S L20 NOT L24,
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L26
            545 $ L25
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1627
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L28
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L30
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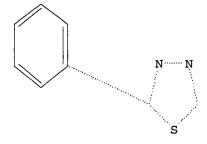
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=> d 115 L15 HAS NO ANSWERS L15 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 118 L18 HAS NO ANSWERS L18 STR



Structure attributes must be viewed using STN Express query preparation.

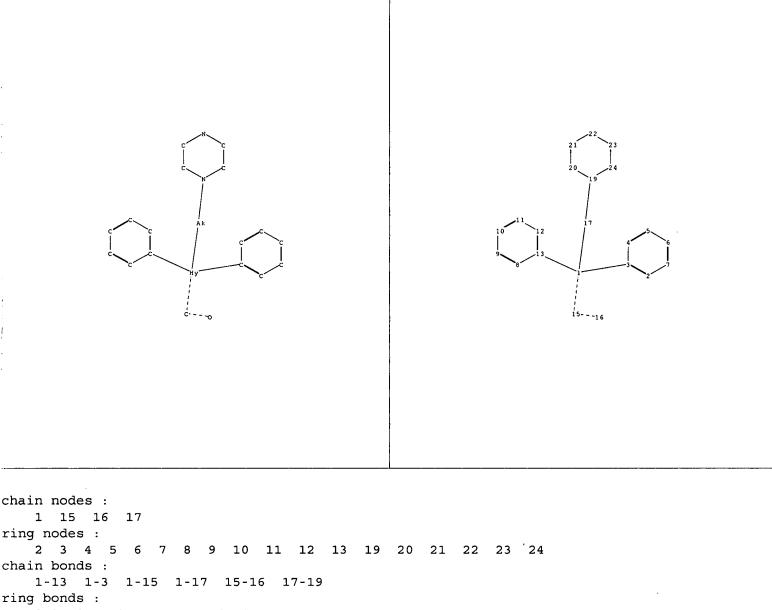
=> d 122 L22 HAS NO ANSWERS L22 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 127 L27 HAS NO ANSWERS L27 STR

Structure attributes must be viewed using STN Express query preparation.



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ring nodes :
    2  3  4  5  6  7  8  9  10  11  12  13  19  20  21  22  23  24

chain bonds :
    1-13  1-3  1-15  1-17  15-16  17-19

ring bonds :
    2-3  2-7  3-4  4-5  5-6  6-7  8-9  8-13  9-10  10-11  11-12  12-13  19-20  19-24  20-21  21-22  22-23  23-24

exact/norm bonds :
    1-13  1-3  1-15  1-17  15-16  17-19  19-20  19-24  20-21  21-22  22-23  23-24

normalized bonds :
    2-3  2-7  3-4  4-5  5-6  6-7  8-9  8-13  9-10  10-11  11-12  12-13  isolated ring systems :
    containing 2 : 8 : 19 :
```

```
Connectivity :
```

17:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom

12:Atom 13:Atom 15:CLASS 16:CLASS 17:CLASS 19:Atom 20:Atom 21:Atom 22:Atom

23:Atom 24:Atom

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ANSWER 1. OF 2: CARLUS ECOPMRIGHET 2007 ACSTON—STN
     2006:383814 CAPLUS
DN
     144:432819
     Preparation of oxadiazole and thiadiazole derivatives as mitotic kinesin
TI
     inhibitors
     Hans, Jeremy; Wallace, Eli M.; Zhao, Qian; Lyssikatos, Joseph P.; Aicher,
IN
     Tom; Laird, Ellen; Robinson, John; Allen, Shelley
PA
     Array Biopharma Inc., USA
SO
     PCT Int. Appl., 202 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                             APPLICATION NO.
                                                                    DATE
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PΙ
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                                                                    20051018
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PRAI US 2004-620048P
                          P
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     US 2005-252232
                          Α
                                20051017
                          W
     WO 2005-US37305
                                20051018
OS
     MARPAT 144:432819
GI
```

AB Oxadiazole and thiadiazole derivs. I, wherein X is O, S; R is ZR2R3, Z-OH, Z-substituted phosphate; R1 is substituted alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl, OR3, substituted oxime, acyl,

substituted amine; Ar1 and Ar2 are independently substituted aryl, heteroaryl; R2 is H, acyl, substituted sulfonyl, alkyl, alkenyl, alkynyl, cycloalkyl, amino acid, polypeptide; R3 is H, acyl, alkyl, alkenyl, alkynyl, cycloalkyl; R2 and R3 together with nitrogen to which they are attached form saturated or partially unsatd. heterocycle; Z is substituted alkylene having 1 to 6 carbons, alkenylene or alkynylene each having from 2 to 6 carbons, were prepared as mitotic kinesin inhibitors, particularly kinesin spindle protein (KSP) in the treatment and prevention of hyperproliferative disorders cancer, autoimmune disease, arthritis, graft rejection, inflammatory bowel disease, or proliferation induced after medical procedures. Thus, oxadiazole II was prepared and tested in vitro as mitotic kinesin inhibitor (IC50 < 50  $\mu$ M). The ability of title compds. to inhibit cellular viability was determined in vitro (EC50 < 50  $\mu$ M).

IT 885064-26-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of oxadiazole and thiadiazole derivs. as mitotic kinesin inhibitors)

RN 885064-26-6 CAPLUS

CN 1,3,4-Thiadiazole, 5-(2,5-difluorophenyl)-2,3-dihydro-3-[(2S)-2-methoxy-1-oxopropyl]-2-[3-(4-methyl-1-piperazinyl)propyl]-2-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

substituted amine; Ar1 and Ar2 are independently substituted aryl, heteroaryl; R2 is H, acyl, substituted sulfonyl, alkyl, alkenyl, alkynyl, cycloalkyl, amino acid, polypeptide; R3 is H, acyl, alkyl, alkenyl, alkynyl, cycloalkyl; R2 and R3 together with nitrogen to which they are attached form saturated or partially unsatd. heterocycle; Z is substituted alkylene having 1 to 6 carbons, alkenylene or alkynylene each having from 2 to 6 carbons, were prepared as mitotic kinesin inhibitors, particularly kinesin spindle protein (KSP) in the treatment and prevention of hyperproliferative disorders cancer, autoimmune disease, arthritis, graft rejection, inflammatory bowel disease, or proliferation induced after medical procedures. Thus, oxadiazole II was prepared and tested in vitro as mitotic kinesin inhibitor (IC50 < 50  $\mu \text{M}$ ). The ability of title compds. to inhibit cellular viability was determined in vitro (EC50 < 50  $\mu \text{M}$ ).

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L30STANSWER 2 OF 2 CAPLUS COPYRIGHT 2007—ACS ON SIN
     2005:346997 CAPLUS
AN
DN
     142:411362
     Preparation of thiadiazoline derivatives as M-phase kinesin Eg5 inhibitors
TI
     for treatment of tumor
     Murakata, Chikara; Amishiro, Nobuyoshi; Ino, Yoji; Yamamoto, Junichiro;
IN
     Atsumi, Toshiyuki; Nakai, Ryuichiro; Nakano, Tomohisa
     Kyowa Hakko Kogyo Co., Ltd., Japan; Fuji Photo Film Co., Ltd.
PΑ
SO
     PCT Int. Appl., 118 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
FAN.CNT 1
     PATENT NO.
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                                            APPLICATION NO.
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                                 20070517
     US 2007112044
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                                            CUST 2006 - 575093
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PRAI JP 2003-351872
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os
     MARPAT 142:411362
GI
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                           OHC-CH_2
                                       N-
                                         N
  R<sup>2</sup>
                                                      II
```

AB The title thiadiazoline derivs. I [wherein Z = S or SO; R1 =

(un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = H, (un)substituted
alkyl, etc.; R3 = H, (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl,
aryl, or heterocyclyl; R4 = (un)substituted alkyl, alkenyl, alkynyl, etc.]
or pharmaceutically acceptable salts thereof are prepared as antitumor
agents. For example, the compound II was prepared in a multi-step synthesis.
II inhibited human tumor cell growth with GI50 of 0.083 μM.
Formulations containing I as an active ingredient were also described.
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT